



Lamb Vaccine Selenised Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
1.3	12/04/2023	11234655-00004	Date of first issue: 06/14/2023

SECTION 1. IDENTIFICATION

Product name	:	Lamb Vaccine Selenised Formulation
Other means of identification	:	Lamb Vaccine Selenised (A001011)

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Antigen	No data availa- ble	Not Assigned	4.037
Aluminium potassium sulfate dodecahydrate	Sulfuric acid, aluminium po- tassium salt	7784-24-9	2.569
Sodium selenate	No data availa- ble	13410-01-0	0.24

SECTION 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical advice immediately.

When symptoms persist or in all cases of doubt seek medical advice.



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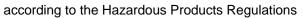
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lf inha	aled		ove to fresh air. tention if symptoms occur.
In cas	se of skin contact	: Wash with wat	er and soap as a precaution.
In cas	se of eye contact	: Flush eyes witl	tention if symptoms occur. n water as a precaution. tention if irritation develops and persists.
If swallowed		: If swallowed, D Get medical at	NOT induce vomiting. tention if symptoms occur. noroughly with water.
	important symptoms ffects, both acute and ed	: None known.	
	ction of first-aiders	and use the re	nders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists (see section 8).
Notes	to physician		atically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Metal oxides Sulfur oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g., by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.





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	thods and materials for ntainment and cleaning up	For large spills, p containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this n employed in the determine which Sections 13 and	rt absorbent material. provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Avoid inhalation of vapor or mist. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	 Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	 Do not store with the following product types: Strong oxidizing agents Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Aluminium potassium sulfate dodecahydrate	7784-24-9	TWA	2 mg/m ³ (Aluminum)	CA AB OEL
		TWAEV (respirable dust)	5 mg/m³	CA QC OEL
Sodium selenate	13410-01-0	TWA	20 µg/m3 (OEB 3)	Internal
		Wipe limit	200 µg/100 cm ²	Internal
		TWA	0.2 mg/m ³ (selenium)	CA AB OEL
		TWAEV	0.2 mg/m ³ (selenium)	CA QC OEL



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				TWA	0.1 mg/m³ (selenium)	CA BC OF
				TWA	0.2 mg/m ³ (selenium)	ACGIH
Engir	neering measures		technologies t less quick con All engineerin design and op protect produc Containment t are required to	o control airbo nections). g controls shou erated in acco cts, workers, ai echnologies so control at sou l to uncontrolle levices).	controls and many rne concentrations uld be implemented ordance with GMP p nd the environment uitable for controllir urce and to prevent ed areas (e.g., oper	(e.g., drip- d by facility principles to t. ing compounds migration of
Perso	onal protective equip	ment				
Resp	iratory protection		If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.			
	ter type protection		Particulates ty			
Ma	aterial	:	Chemical-resi	stant gloves		
	emarks protection	:	If the work en mists or aeros Wear a facesh	lasses with sic vironment or a ols, wear the a hield or other fu	le shields or goggle ctivity involves dus appropriate goggles ull face protection it the face with dusts	ty conditions, s. f there is a
Skin a	and body protection	:	Work uniform Additional boo task being per disposable su	formed (e.g., s its) to avoid ex ite degowning	coat. lould be used base sleevelets, apron, g posed skin surface techniques to remo	auntlets, s.
Hygie	ene measures	:	If exposure to eye flushing s working place When using d Wash contam The effective of engineering co appropriate de industrial hygi	chemical is lik ystems and sa o not eat, drink inated clothing operation of a ontrols, proper gowning and	l before re-use. facility should inclu personal protective decontamination pr g, medical surveilla	to the de review of e equipment, rocedures,

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: Aqueous solution

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	Color		:	No data available	
	Odor		:	No data available	
	Odor T	hreshold	:	No data available	
	pН		:	6.0 - 7.0	
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	No data available	
	Evapor	ation rate	:	No data available	
	Flamm	ability (solid, gas)	:	Not applicable	
	Flamm	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relativ	e vapor density	:	No data available	
	Relativ	e density	:	1.02	
	Density	/	:	No data available	
	Solubili Wat	ity(ies) er solubility	:	No data available	
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	

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Partic	cle size	:	Not applicable				
ECTION	10. STABILITY AND RE	EAC	TIVITY				
Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials Hazardous decomposition products			None known.Oxidizing agents				
ECTION	11. TOXICOLOGICAL I	NFC	ORMATION				
Inhala Skin o Inges	contact	of e	⊧xposure				
	<mark>e toxicity</mark> lassified based on availa	blo	information				
Prod		DIE	mormation.				
	e oral toxicity	:	Acute toxicity es Method: Calcula	timate: > 2,000 mg/kg tion method			
Acute inhalation toxicity		:	 Acute toxicity estimate: > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method 				
<u>Com</u>	ponents:						
Alum	inium potassium sulfa	te d	odecahydrate:				
Acute	e oral toxicity	:		5,000 mg/kg on data from similar materials			
Sodiu	um selenate:						
Acute	e oral toxicity	:	LD50 (Rat): > 5 Remarks: Based	- 50 mg/kg I on data from similar materials			
Acute	inhalation toxicity	:	LC50 (Rat): > 0.0 Exposure time: 4 Test atmosphere				

Not classified based on available information.





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	Compo	onents:							
		nium potassium sulfa	ate d	odecahydrate:					
	Specie	-	:	Mouse					
	Result Remarks		:	 No skin irritation Based on data from similar materials 					
	Reman	~5	•	Daseu on uala no	in sinilar materials				
	Sodiur	n selenate:							
	Specie		:		man epidermis (RhE)				
	Method	1	:	OECD Test Guide	eline 431				
	Specie		:		man epidermis (RhE)				
	Method	1	:	OECD Test Guide	eline 439				
	Result : Skin irritation								
	Serious eye damage/eye irritation Not classified based on available information.								
	Compo	onents:							
	Alumir	nium potassium sulfa	ate d	odecahydrate:					
	Species		: Rabbit						
	Result		: No eye irritation : Based on data from similar materials						
	Remarks		•	Dased on data inc	in sinilar materials				
	Sodiur	n selenate:							
	Specie		:	Bovine cornea					
	Method	1	:	OECD Test Guide	eline 437				
	Result		:	No eye irritation					
	Respir	atory or skin sensiti	zatio	'n					
		ensitization							
		ssified based on avail	able	information.					
	•	atory sensitization							
		ssified based on avail	able	information.					
	Compo	onents:							
		nium potassium sulfa	ate d	•					
	Test Ty Routes	/pe of exposure	:	Draize Test Skin contact					
	Specie		÷	Rabbit					
	Result		:	negative					
	Remarl	ks	:	Based on data fro	om similar materials				
	Germ o	cell mutagenicity							

Not classified based on available information.

according to the Hazardous Products Regulations



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	<u>Comp</u>	onents:				
	Alumi	nium potassium sulfa	lodecahydrate:			
	Genotoxicity in vitro		:	Test Type: Bacterial reverse mutation assay (AME Result: negative		
	Sodiu	m selenate:				
	Genotoxicity in vitro		:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) est Guideline 471 on data from similar materials	
Carcinogenicity Not classified based on available information.						
	Repro	ductive toxicity				
	Not cla	assified based on availa	able	information.		
Components:						
		nium potassium sulfa s on fertility	te d	dodecahydrate: Test Type: Two-generation reproduction toxicity stud Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative Remarks: Based on data from similar materials		
	Effects	on fetal development	:	Species: Rat Application Route Method: OPPTS Result: negative		
	Sodiu	m selenate:				
	Effects	s on fertility	:	Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Ingestion on data from similar materials	
	Effects	on fetal development	:	Species: Mouse Application Route Result: negative	vo-fetal development e: Ingestion on data from similar materials	

STOT-single exposure

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стот	-repeated exposure	ļ.		
Not cl	assified based on ava	ailable	information.	
<u>Comp</u>	oonents:			
Sodiu	ım selenate:			
Route	s of exposure	:	Ingestion	
	sment	:		ce significant health effects in animals at cor) mg/kg bw or less.
Repe	ated dose toxicity			
Comp	oonents:			
Alum	inium potassium su	lfate d	odecahydrate:	
Speci		:	Mouse	
NOAE		:	15,000 mg/kg	
	ation Route	:	Ingestion 5 Weeks	
Metho		:		/EEC, Annex V, B.33.
	-			
Sodiu	ım selenate:			
Speci		:	Rat	
NOAE		:	0.4 mg/kg	
Applic	ation Route	:	Ingestion 13 Weeks	
Expos		•		
Aspir Not cl	ation toxicity assified based on ava		information.	
Aspir Not cl	ation toxicity		information.	
Aspir Not cl	ation toxicity assified based on ava 12. ECOLOGICAL II		information.	
Aspir Not cl CTION Ecoto	ation toxicity assified based on ava 12. ECOLOGICAL II oxicity		information.	
Aspir Not cl CTION Ecoto <u>Comp</u>	ation toxicity assified based on ava 12. ECOLOGICAL II exicity ponents:	NFORM	information.	
Aspir Not cl CTION Ecoto <u>Comr</u> Alum	ation toxicity assified based on ava 12. ECOLOGICAL IN exicity ponents: inium potassium su	NFORM	information. IATION	es prometas (fathead minnow)): $> 1.000 - <$
Aspir Not cl CTION Ecoto <u>Comr</u> Alum	ation toxicity assified based on ava 12. ECOLOGICAL II exicity ponents:	NFORM	information. IATION	es promelas (fathead minnow)): > 1,000 - <
Aspir Not cl CTION Ecoto <u>Comr</u> Alum	ation toxicity assified based on ava 12. ECOLOGICAL IN exicity ponents: inium potassium su	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time:	96 h
Aspir Not cl CTION Ecoto <u>Comr</u> Alum	ation toxicity assified based on ava 12. ECOLOGICAL IN exicity ponents: inium potassium su	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time:	es promelas (fathead minnow)): > 1,000 - < 96 h 3 on data from similar materials
Aspir Not cl CTION Ecoto Comp Alum Toxici	ation toxicity assified based on ava 12. ECOLOGICAL IN points: ponents: inium potassium su ty to fish	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time:	96 h
Aspir Not cl CTION Ecoto Comp Alum Toxici	ation toxicity assified based on avain 12. ECOLOGICAL If exicity <u>ponents:</u> inium potassium su ty to fish	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time: Remarks: Based	96 h I on data from similar materials
Aspir Not cl CTION Ecoto Comp Alum Toxici	ation toxicity assified based on ava 12. ECOLOGICAL IN points: ponents: inium potassium su ty to fish	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time: Remarks: Based	96 h
Aspir Not cl CTION Ecoto Alum Toxici	ation toxicity assified based on avain 12. ECOLOGICAL If exicity <u>ponents:</u> inium potassium su ty to fish	NFORM	information. MATION Odecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time: Remarks: Based	96 h I on data from similar materials
Aspir Not cl CTION Ecoto Comp Alum Toxici Ecoto Chron Sodiu	ation toxicity assified based on avain 12. ECOLOGICAL IN exicity conents: inium potassium sur- ty to fish exicology Assessment ic aquatic toxicity	NFORM	information. MATION Iodecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time: 9 Remarks: Based No toxicity at the LC50 (Pimephal	96 h d on data from similar materials e limit of solubility. es promelas (fathead minnow)): > 1 - 10 mg
Aspir Not cl CTION Ecoto Comp Alum Toxici Ecoto Chron Sodiu	ation toxicity assified based on avain 12. ECOLOGICAL IN exicity conents: inium potassium sur- ty to fish exicology Assessme thic aquatic toxicity im selenate:	NFORM	information. MATION Iodecahydrate: LC50 (Pimephal 10,000 mg/l Exposure time: Remarks: Based No toxicity at the LC50 (Pimephal Exposure time:	96 h d on data from similar materials e limit of solubility. es promelas (fathead minnow)): > 1 - 10 mg



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	Toxicity to daphnia and other aquatic invertebrates Toxicity to algae/aquatic plants		:	Exposure time: 48	nagna (Water flea)): > 1 - 10 mg/l 3 h on data from similar materials
			:	ErC50 (Chlamydo Exposure time: 96	omonas reinhardtii (green algae)): 245 μg/l δ h
				NOEC (Chlamydd Exposure time: 96	omonas reinhardtii (green algae)): 197 μg/l δ h
	 Toxicity to fish (Chronic toxicity) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Toxicity to microorganisms Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Other adverse effects No data available 		:	mg/l Exposure time: 28	macrochirus (Bluegill sunfish)): > 0.01 - 0.1 58 d on data from similar materials
а			:	NOEC: > 0.1 - 1 r Exposure time: 28 Remarks: Based	
Т			:	EC10 (activated s Exposure time: 3 Method: OECD T	
			ity		
c					
SECT	TION 1	3. DISPOSAL CONSIE	DER	ATIONS	
	•	al methods		Do not dianogo of	waata into cowar

Waste from residues	: Do not dispose of waste into sewer.	
	Dispose of in accordance with local regulations.	
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good





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IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

TDG

Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Full text of other abbreviations							
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)					
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)					
CA BC OEL	:	Canada. British Columbia OEL					
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants					
ACGIH / TWA	:	8-hour, time-weighted average					
CA AB OEL / TWA	:	8-hour Occupational exposure limit					
CA BC OEL / TWA		8-hour time weighted average					
CA QC OEL / TWAEV	:	Time-weighted average exposure value					

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Or-



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ganisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature: SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	12/04/2023 mm/dd/yyyy

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CA / Z8